

Date Searched: 6/17/2004

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1 (((driver or buffer or repeater) same (((surround\$3 or around or encircl\$3 or circl\$3 or circular\$2) or (veritcal\$3 same horizontal\$3)) same ((peripher\$3 or boundary or edge) same chip)

) and ((driver or buffer or repeater) same (driv\$3 or output\$4) same (display or crt or monitor)

)) and (257/59,72.ccls. or 326/561.ccls. or 345/\$.ccls. or 348/\$.ccls. or 349/\$.ccls.

or 716/\$.ccls.

) and @pd>20040326

Results: 2 hits

L2 ((chip or on-chip) same ((driver or buffer or repeater) same (memory or ram or register or rom or eprom or storage or sram or sdram)) same ((driver or buffer or repeater) same (anode or cathode))) and (257/59,72.ccls. or 326/561.ccls. or 345/\$.ccls. or 348/\$.ccls. or 349/\$.ccls.

or 716/\$.ccls.) and @pd>20040326

Results: 4 hits

Date Searched: 3/6/2004

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1 (((driver or buffer or repeater) same (((surround\$3 or around or encircl\$3 or circl\$3 or circular\$2) or (veritcal\$3 same horizontal\$3)) same ((peripher\$3 or boundary or edge) same chip)

) and ((driver or buffer or repeater) same (driv\$3 or output\$4) same (display or crt or monitor)

)) and (257/59,72.ccls. or 326/561.ccls. or 345/\$.ccls. or 348/\$.ccls. or 349/\$.ccls.

or 716/\$.ccls.

) and @pd>20040114

Results: 1 hit

L2 ((chip or on-chip) same ((driver or buffer or repeater) same (memory or ram or register or rom or eprom or storage or sram or sdram)) same ((driver or buffer or repeater) same (anode or cathode))) and (257/59,72.ccls. or 326/561.ccls. or 345/\$.ccls. or 348/\$.ccls. or 349/\$.ccls.

or 716/\$.ccls.) and @pd>20040114

Results: 0 hit

Date Searched: 1/14/2004

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1 (peripher\$3 or boundary or edge) same chip

L2 ((surround\$3 or around or encircl\$3 or circl\$3 or circular\$2) or (veritcal\$3 same horizontal\$3)) same 1

L3 (driver or buffer or repeater) same 2

L4 (driver or buffer or repeater) same (driv\$3 or output\$4) same (display or crt or monitor)

L5 3 and 4

Results: 157 hits

L6 257/59,72.ccls. or 326/561.ccls. or 345/\$.ccls. or 348/\$.ccls. or 349/\$.ccls.

or 716/\$.ccls.

L7 5 and 6

Results: 37 hits

L8 ((chip or on-chip) same ((driver or buffer or repeater) same (memory or ram or register or rom or eprom or storage or sram or sdram)) same ((driver or buffer or repeater) same (anode or cathode))) and (257/59,72.ccls. or 326/561.ccls. or 345/\$.ccls. or 348/\$.ccls. or 349/\$.ccls.

or 716/\$.ccls.) and @pd>20030723

Results: 1 hit

US 5754171 A	USPAT Stoller, Ray A.	345/205
US 6550047 B1	USPAT Becker, Scott T.	716/8
US 5699073 A	USPAT Lebby, Michael S. et al.	345/82
US 5680191 A	USPAT Voisin, Paul A. et al.	349/150

Date Searched: 7/23/2003

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1 (driver or buffer or repeater) same (memory or ram or register or rom or eprom or storage or sram or sdram)

L2 (driver or buffer or repeater) same (anode or cathode)

L3 1 and 2

Results: 3704

L4 (chip or on-chip) same 1 same 2

Results: 101

L5 257/59,72.ccls. or 326/561.ccls. or 345/\$.ccls. or 348/\$.ccls. or 349/\$.ccls. or 716/\$.ccls.

L6 4 and 5

Results: 49 hits

L7 bit same (group\$3 or cluster\$3 or partition\$3 or set)

L8 7 same (peripher\$3 or boundary or edge) same chip

L9 (circl\$3 or circular\$2 or round\$3 or encircl\$3) same 7

L10 8 and 9

Results: 5159 hits

L11 5 and 10

Results: 496 hits

L12 (circl\$3 or circular\$2 or round\$3 or encircl\$3) same 8

Results: 43 hits

L13 (circl\$3 or circular\$2 or round\$3 or encircl\$3) near5 shape

L14 8 and 13 and 5

Results: 5 hits

L15 8 and 716/\$.ccls.

Results: 20 hits

US 4833620 A	USPAT Takahashi, Hitoshi	716/4
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US 4447881 A	USPAT Brantingham, George L. et al.	716/17
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US 6008821 A	USPAT Bright, Arthur Aaron et al.	345/504
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Date Searched: 7/21/2003

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1 716/\$.ccls.

L2 (driver or buffer or repeater) same (memory or ram or register or rom or eprom or storage)

L3 2 same (equal\$2 or equidistance or symmetr\$6 or center\$3 or central\$2 or "same" or equival\$4)

L4 1 and 2

Results: 260 hits

L5 4 and dummy

Results: 11 hits

L6 bit same (driver or buffer or repeater)  
 L7 4 and 6  
 Results: 113 hits  
 L8 716/\$.ccls. and (((driver or buffer or repeater) same (memory or ram or register or rom or eprom or storage)) same (identical\$2))  
 L9 8 and 6  
 Results: 17 hits  
 L10 9 not 4  
 Results: 4 hits  
 L11 (8 or 4) and cathode and anode  
 Results: 5 hits  
 L9 (((driver or buffer or repeater) same (memory or ram or register or rom or eprom or storage or sram or sdram or dram)) same (equal\$2 or equidistance or symmetr\$6 or center\$3 or central\$2 or "same" or equival\$4 or middle))  
 L10 (driver or buffer or repeater) same anode same cathode  
 L11 257/59,72.ccls. or 326/561.ccls. or 345/\$.ccls. or 348/\$.ccls. or 349/\$.ccls.

L12 9 and 10 and 11  
 Results: 96 hits

US 6256604 B1	USPAT Yabe, Tomoaki et al.	703/14
US 6304241 B1	USPAT Udo, Shinya et al.	345/96
US 4214269 A	USPAT Parker, Edward J. et al.	348/442

US 5757654 A	USPAT Appel, William Dale	716/1
US 5488583 A	USPAT Ong, Adrian E. et al.	365/201

US 6470475 B2      USPAT Dubey, Prashant 716/1

Databases Searched: EPO, JPO, IBM TDB, Derwent

Plurals: ON

Terms Searched:

L1 (((driver or buffer or repeater) same (memory or ram or register or rom or eprom or storage)) same (equal\$2 or equidistance or symmetr\$6 or center\$3 or central\$2 or "same" or equival\$4 or identical\$2))  
 L2 bit same (driver or buffer or repeater)  
 L3 1 and 2  
 Results: 2750 hits  
 L4 g06f017/50.ipc. and 3  
 Results: 0 hit  
 L5 g11b\$.ipc. and 3  
 Results: 46 hits  
 L6 (((driver or buffer or repeater) same (memory or ram or register or rom or eprom or storage)) same (center\$3 or central\$2 or middle))  
 L7 6 and chip  
 Results: 85 hits  
 L8 3 and cathode and anode  
 Results: 6 hits  
 L9 ((bit same (group\$3 or cluster\$3 or partition\$3 or set)) same (peripher\$3 or boundary or edge) same chip )  
 Results: 207 hits  
 L10 9 and anode and cathode  
 Results: 1 hit  
 L11 ((bit near\$5 (group\$3 or cluster\$3 or partition\$3 or set)) same (peripher\$3 or boundary or edge)

same chip

)

Results: 68 hits

JP 10256512 A	JPO	KAJITANI, KAZUHIKO et al.
JP 07211075 A	JPO	AKIYAMA, NOBORU et al.
JP 02183558 A	JPO	HIROKI, MASANORI
JP 02078268 A	A, ZZ JPO	KUBODERA, MASA AKI et al.
JP 02005292 A	JPO	OHATA, KENICHI et al.
JP 63209141 A	JPO	URASAKI, TADAAKI
JP 63027055 A	JPO	NAKAJIMA, CHIEKO
WO 9858410 A1	EPO	KITSUKAWA, GORO et al.
JP 11154708 A	JPO	SERA, YOSHI AKI
JP 11068059 A	JPO	FUJISAWA, HIROKI
JP 11054726 A	JPO	SUZUKI, TSUYUKI et al.
JP 04144276 A	JPO	KIKUTA, SHIGERU et al.
NN8706330	IBM_TDB	
JP 11086531 A	DERWENT	
EP 433087 A2	A2, A3 EPO	COLLINS, WILLIAM DAVID et al.
NB8909290	IBM_TDB	

Database Searched: IEE/IEEE Xplore

Terms Searched: (driver or buffer or repeater) and (memory or ram or register or rom or eeprom or storage) and (equal\* or equidistance or symmetr\* or center\* or central\* or "same" or equival\* or middle or identical\*) and bit

Results: Your search matched 117 of 950522 documents.

Terms Searched: (driver or buffer or repeater) and (memory or ram or register or rom or eeprom or storage) and (equal\* or equidistance or symmetr\* or center\* or central\* or "same" or equival\* or middle or identical\*) and bit and chip

Results: Your search matched 38 of 950522 documents.

Terms Searched: (driver or buffer or repeater) and (memory or ram or register or rom or eeprom or storage) and (equal\* or equidistance or symmetr\* or center\* or central\* or "same" or equival\* or middle or identical\*) and bit and anode and cathode

Results: Your search matched [0] of [950522] documents.

Terms Searched: ((bit <near/5> (group\* or cluster\* or partition\* or set)) and (peripher\* or boundary or edge) and chip

)

Results: Your search matched 5 of 955082 documents.

Terms Searched: (driver or buffer or repeater) and (memory or ram or register or rom or eeprom or storage or dram or sram or sdram) and (anode or cathode)

Results: Your search matched 3 of 955082 documents.